BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Development of Roads and Drains in Ward no.11,Vidyaranyapura sub division

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
							Estimation Cost.Rs		20000000
1.00	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	For New Drain								
	M S Palya								
	M s palya tippu sulthan road 2nd cross road (Mosque road)	Cum	2	120.00	0.75	0.85	153		
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Cum	2	159.00	0.75	0.85	202.725		
	Sawmill road	Cum	2	194.00	0.75	0.90	261.9		
	Sawmill back side road (L H S)	Cum	1	83.00	0.75	0.85	52.9125		
	Sawmill back side road (R H S)	Cum	1	45.00	0.75	0.85	28.6875		
	Sawmill back side road-Goss road	Cum	2	100.00	0.75	0.85	127.5		
	Desilting								
	Balaji Layout								
	Balaji Layout 2nd main 1st Cross	Cum	2	100.00	0.50	0.60	60.00		
	Balaji Layout 2nd A main	Cum	2	50.00	0.60	0.60	36.00		
	Vinayaka nagara								
	vinayaka nagara 9th cross	Cum	1	157.00	0.60	0.60	56.52		
	vinayaka nagara 8th cross	Cum	2	91.00	0.60	0.60	65.52		
	vinayaka nagara 8th cross B	Cum	2	83.00	0.90	0.60	89.64		
	Abdhul kalam road	Cum	2	130.00	0.50	0.50	65.00		
	Ayyappaswami Temple road	Cum	1	190.00	0.75	0.60	85.50		
	Sai garden								
	Sai garden 1st cross road	Cum	2	47.00	0.60	0.60	33.84		
	Sai garden 2nd cross road	Cum	2	58.00	0.60	0.60	41.76		
	Sai garden 3rd Cross Road	Cum	2	64.00	0.60	0.60	46.08		
	Basic rate	130.00							
	Area weightage 6%	7.80							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	**207.60**							
	Total						**1406.59**	**207.60**	**292007.05**
2.00	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Drain Cover Slab								
	C C Pre cast slab								
	Balaji Layout 2nd main 1st	Sqm	2	100	0.9		180.00		
	vinayaka nagara 9th cross	Sqm	1	157.00	0.90		141.30		
	vinayaka nagara 8th cross	Sqm	2	91.00	0.90		163.80		
	vinayaka nagara 8th cross B	Sqm	2	83.00	0.90		149.40		
	Ayyappaswami Temple road	Sqm	1	190.00	0.75		142.50		
						Sub total	**777.00**		
	Deduct 10% for Missing/Damaged						**77.70**		
							699.30		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Consider 5% Qnty for Removing & Refixing						34.97		
	BS Drain Cover Slab								
	Balaji Layout 2nd A main	Sqm	2	50	0.9		90.00		
						Sub total	**90.00**		
	Deduct 10% for Missing/Damaged						9.00		
							81.00		
	Consider 5% Qnty for Removing & Refixing						**4.05**		
	Open Drain (Sides & Bottom)		Width=Perimeter of Drain in U Shape						
	Balaji Layout 2nd A main	Sqm	2	50.00	1.7		170.00		
	Abdhul kalam road	Sqm	2	130.00	1.5		390.00		
	Ayyappaswami Temple road	Sqm	1	190.00	1.8		342.00		
	Sai garden	Sqm							
	Sai garden 1st cross road	Sqm	2	47.00	1.80		169.20		
	Sai garden 2nd cross road	Sqm	2	58.00	1.80		208.80		
	Sai garden 3rd Cross Road	Sqm	2	64.00	1.80		230.40		
						Sub Total	**1510.40**		
						Total	**1510.40**		
	Deduct 10% for Missing/Damaged						**151.04**		
							1359.36		
	Consider 5% Qnty for Removing & Refixing						**67.97**		
	Basic rate	105.00							
	Area weightage 6%	6.30							
	Sub Total	**111.30**							
	Total						**106.98**	**111.30**	**11907.21**
3.00	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.								
	BS Drain	**Sqm**							
	Open Drain (Sides & Bottom)		Width=Perimeter of Drain in U Shape						
	Provide 10 % Qnty for missing and Damaged		**From Item No 2**				151.04		
	Basic rate	700.00							
	Area weightage 6%	42.00							
	Sub Total	**742.00**							
	Total						**151.04**	**742.00**	**112071.68**
4.00	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.								
	BS Drain Cover Slab	**Sqm**							
	Provide 10 % Qnty for missing and Damaged		**From Item No 2**				9.00		
	Basic rate	912.00							
	Area weightage 6%	54.72							
	Sub Total	**966.72**							
	Total						**9.00**	**966.72**	**8700.48**
5.00	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
	New Drain								
	M S Palya								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	M s palya tippu sulthan road 2nd cross road (Mosque road)	Cum	2	120.00	0.75	0.15	27.00		
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Cum	2	159.00	0.75	0.15	35.78		
	Sawmill road								
	Sawmill back side road (L H S)	Cum	2	194.00	0.75	0.15	43.65		
	Sawmill back side road (R H S)	Cum	1	83.00	0.75	0.15	9.34		
	Sawmill back side road-Goss road	Cum	1	45.00	0.75	0.15	5.06		
	For Culvert	Cum	2	100.00	0.75	0.15	22.50		
	Road PCC								
	Vinayakanagara								
	Vinayakanagara								
	Vinayakanagara 9th Cross								
	Vinayakanagara 8th E Cross	Cum	1	157.00	5.50	0.15	129.53		
	Vinayakanagara 8th Cross"B"	Cum	1	91.00	4.50	0.15	61.43		
	Vinayakanagara 8th C Cross	Cum	1	83.00	4.90	0.15	61.01		
	Vinayakanagara 9th Cross (RHS Cross Road-01)	Cum	1	88.00	3.90	0.15	51.48		
	Vinayakanagara 9th Cross (RHS Cross Road-02)	Cum	1	78.00	4.10	0.15	47.97		
	Vinayakanagara 9th Cross (RHS Cross Road-03)	Cum	1	77.00	4.00	0.15	46.20		
		Cum	1	51.00	2.80	0.15	21.42		
	Basic rate	5115.00							
	Area weightage 6%	306.90							
	Sub Total	5421.90							
	Total						**562.35**	**5421.90**	**3049005.47**
6.00	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 10Cm(Item No 37.59.1 page no 271)								
	M S palya								
	M s palya tippu sulthan road 2nd cross road (Mosque road)								M s
	Bottom slab	Cum	2	120.00	0.60	0.10	14.40		
	Side wall	Cum	4	120.00	0.10	0.60	28.80		yara
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)								
	Bottom slab	Cum	2	159.00	0.60	0.10	19.08		
	Side wall	Cum	4	159.00	0.10	0.60	38.16		
	Sawmill road								
	Bottom slab	Cum	2	194.00	0.60	0.10	23.28		
	Side wall	Cum	4	194.00	0.10	0.60	46.56		
	Sawmill back side road (L H S)								
	Bottom slab	Cum	1	83.00	0.60	0.10	4.98		
	Side wall	Cum	2	83.00	0.10	0.60	9.96		
	Sawmill back side road (R H S)								
		Cum	1	45.00	0.60	0.10	2.70		
		Cum	2	45.00	0.10	0.55	4.95		
	Sawmill back side road-Goss road								
	Bottom slab	Cum	2	100.00	0.60	0.10	12.00		
	Side wall	Cum	4	100.00	0.10	0.60	24.00		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Basic rate					Sub Total	228.87		
	Area weightage 6%	6862.00							
	Sub Total	411.72							
	Total	7273.72							
7.00	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2						228.87	7273.72	1664736.30
	For Drain	Cum	From item no.6				228.87		
		kg	Steel assumed 55 Kg/Cum of Concrete				12587.85		
		tonne					**12.59**		
	Basic rate	68233.00							
	Area weightage 6%	4093.98							
	Sub Total	72326.98							
	Total						**12.59**	**72326.98**	**910441.18**
8.00	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	New Drain								
	M s palya tippu sulthan road 2nd cross road (Mosque road)	Sqm	2	120.00	0.75		180.00		
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Sqm	2	159.00	0.75		238.50		
	Sawmill road	Sqm	2	194.00	0.75		291.00		
	Sawmill back side road (L H S)	Sqm	1	83.00	0.75		62.25		
	Sawmill back side road (R H S)	Sqm	1	45.00	0.75		33.75		
	Sawmill back side road-Goss road	Sqm	2	100.00	0.75		150.00		
	Pre cast cover slab								
	Provide 10 % Qnty for missing and Damaged	**From item no 2**					**77.70**		
	Data Rate	**2337.00**							
	Total						**1033.20**	**2337.00**	**2414588.40**
9.00	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	Road cut portion								
	Balaji layout								
	Balaji layout 2nd main 1st cross	Cum	1	4.00	1.30	0.23	1.20		
		Cum	1	3.00	1.00	0.23	0.69		
	Balaji layout 2nd A main	Cum	1	3.00	1.50	0.23	1.04		
	M S Palya								
	M s palya tippu sulthan road 2nd cross road (Mosque road)	Cum	1	20.00	1.50	0.23	6.90		
		Cum	1	5.00	1.50	0.23	1.73		
	Sawmill road	Cum	1	20.00	1.00	0.23	4.60		
		Cum	1	11.00	1.50	0.23	3.80		
		Cum	1	4.00	1.50	0.23	1.38		
	Ayyappa temple Road	Cum	1	30.00	1.50	0.23	10.35		
		Cum	1	8.00	1.50	0.23	2.76		
	Sai garden								
	Sai garden 1st main road	Cum	1	180.0	1.50	0.23	62.10		
		Cum	1	1.50	1.50	0.23	0.52		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
		Cum	1	2.00	1.00	0.23	0.46		
	Sai garden 2nd Cross road	Cum	1	15.00	1.50	0.23	5.18		
		Cum	1	10.00	1.20	0.23	2.76		
	Varadaraju nagara	Cum							
	Aveskha hospital back side	Cum	1	27.00	0.60	0.23	3.73		
	1st main 1st Cross Road	Cum	1	3.00	0.80	0.23	0.55		
	2nd cross Road	Cum	1	4.00	0.60	0.23	0.55		
	4th cross Road	cum	1	3.00	0.80	0.23	0.55		
	for concrete Road								
	Vinayakanagara								
	Vinayakanagara 9th Cross	Cum	1	157.00	5.50	0.10	86.35		
	Vinayakanagara 8th Cross"B"	Cum	1	83.00	4.90	0.10	40.67		
	Vinayakanagara 8th C Cross	Cum	1	88.00	3.90	0.10	34.32		
	Vinayakanagara 8th E Cross	Cum	1	91.00	4.50	0.10	40.95		
	Vinayakanagara 9th Cross (RHS Cross Road-01)	Cum	1	78.00	4.10	0.10	31.98		
	Vinayakanagara 9th Cross (RHS Cross Road-02)	Cum	1	77.00	4.00	0.10	30.80		
	Vinayakanagara 9th Cross (RHS Cross Road-03)	Cum	1	51.00	2.80	0.10	14.28		
	Basic rate	41.00							
	Area weightage 6%	2.46							
	5Km lead= (2*1.28*5)	12.80							
	Sub Total	**56.26**							
	Total						**390.18**	**56.26**	**21951.27**
10.00	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
	Scarify Portion								
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Sqm	1	75.00	5.00		375.00		
	New road								
	Sai garden 1st cross road	Sqm	1	47.00	4.20		197.40		
	Abdul kalam Road	Sqm	1	130.00	4.80		624.00		
	Sai garden 3rd Cross Road	Sqm	1	64.00	5.80		371.20		
	Vinayakanagara 8th E Cross	Sqm	1	91.00	4.50		409.50		
	Basic rate	39.00							
	Area weightage 6%	2.34							
	Sub Total	41.34							
	Total						**1977.10**	**41.34**	**81733.31**
11.00	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	Scarify Portion								
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Sqm	1	75.00	5.00		375.00		
	For new road								
	Sai garden 1st cross road	Sqm	1	47.00	4.20		197.40		
	Abdul kalam Road	Sqm	1	130.00	4.80		624.00		
	Sai garden 3rd Cross Road	Sqm	1	64.00	5.80		371.20		
	Basic rate	6.00							
	Area weightage 6%	0.36							

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Sub Total	6.36							
	Total						**1567.60**	**6.36**	**9969.94**
12.00	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	Scarify Portion								
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Cum	1	75.00	5.00	0.15	56.25		
	New Road								
	Sai garden 1st cross road	Cum	1	47.00	4.20	0.15	29.61		
	Basic rate	1882.00							
	Area weightage 6%	112.92							
	Sub Total	1994.92							
	Total						**85.86**	**1994.92**	**171283.83**
13.00	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Road cut portion								
	Balaji layout								
	Balaji layout 2nd main 1st cross	Cum	1	4.00	1.30	0.23	1.20		
		Cum	1	3.00	1.00	0.23	0.69		
	Balaji layout 2nd A main	Cum	1	3.00	1.50	0.23	1.04		
	M s palya								
	M s palya tippu sulthan road 2nd cross road (Mosque road)	Cum	1	20.00	1.50	0.23	6.90		
		Cum	1	5.00	1.50	0.23	1.73		
	Sawmill road	Cum	1	20.00	1.00	0.23	4.60		
		Cum	1	11.00	1.50	0.23	3.80		
		Cum	1	4.00	1.50	0.23	1.38		
	Ayyappa temple Road	Cum	1	30.00	1.50	0.23	10.35		
		Cum	1	8.00	1.50	0.23	2.76		
	Sai garden								
	Sai garden 1st main road	Cum	1	180.00	1.50	0.23	62.10		
		Cum	1	5.00	1.50	0.23	1.73		
		Cum	1	3.00	1.00	0.23	0.69		
	Sai garden 2nd Cross road	Cum	1	15.00	1.50	0.23	5.18		
		Cum	1	10.00	1.20	0.23	2.76		
	Varadaraju nagara								
	Aveskha hospital back side	Cum	1	27.00	0.60	0.23	3.73		
	1st main 1st Cross Road	Cum	1	3.00	0.80	0.23	0.55		
	2nd cross Road	Cum	1	4.00	0.60	0.23	0.55		
	4th cross Road	cum	1	3.00	0.80	0.23	0.55		
						Sub Total	**112.26**		
	Scarify Portion								
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Cum	1	75.00	5.00	0.23	86.25		
	New Road								
	Sai garden 1st cross road	Cum	1	47.00	4.20	0.23	45.40		
	Abdul kalam Road	Cum	1	130.00	4.80	0.23	143.52		
	Sai garden 3rd Cross Road	Cum	1	64.00	5.80	0.23	85.38		
						Sub Total	**360.55**		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Basic rate	1888.00							
	Area weightage 6%	113.28							
	Sub Total	**2001.28**							
	Total						**472.81**	**2001.28**	**946227.20**
14.00	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.158,I.No.21.1)								
	Road cut portion								
	Balaji layout								
	Balaji layout 2nd main 1st cross	Sqm	1	4.00	1.30		5.20		
		Sqm	1	3.00	1.00		3.00		
	Balaji layout 2nd A main	Sqm	1	3.00	1.50		4.50		
	M s palya								
	M s palya tippu sulthan road 2nd cross road (Mosque road)	Sqm	1	20.00	1.50		30.00		
		Sqm	1	5.00	1.50		7.50		
	Sawmill road	Sqm	1	20.00	1.00		20.00		
		Sqm	1	11.00	1.50		16.50		
		Sqm	1	4.00	1.50		6.00		
	Ayyappa temple Road	Sqm	1	30.00	1.50		45.00		
		Sqm	1	8.00	1.50		12.00		
	Sai Garden								
	Sai garden 1st main road	Sqm	1	180.00	1.50		270.00		
		Sqm	1	1.50	1.50		2.25		
		Sqm	1	2.00	1.00		2.00		
	Sai garden 2nd Cross road	Sqm	1	15.00	1.50		22.50		
		Sqm	1	10.00	1.20		12.00		
	Varadaraju nagara								
	Aveskha hospital back side	Sqm	1	27.00	0.60		16.20		
	1st main 1st Cross Road	Sqm	1	3.00	0.80		2.40		
	2nd cross Road	Sqm	1	4.00	0.60		2.40		
	4th cross Road	Sqm	1	3.00	0.80		2.40		
						Sub Total	**481.85**		
	Scarify length								
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Sqm	1	75.00	5.00		375.00		
						Sub Total	**375.00**		
	New road								
	Sai garden 1st cross road	Sqm	1	47.00	4.20		197.40		
	Abdul kalam Road	Sqm	1	130.00	4.80		624.00		
	Sai garden 3rd Cross Road	Sqm	1	64.00	5.80		371.20		
						Sub Total	**1192.60**		
	Basic rate	21.00							
	Area weightage 6%	1.26							
	Sub Total	**22.26**							
	Total						**2049.45**	**22.26**	**45620.76**
15.00	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	For Road Cut Portion	Sqm	From Item num 14				481.85		
	for old Road Provide 15% Profile Correction	Sqm	from item no17=(7695.7X15%)=1154.36				1164.05		
	Scarify length								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Sqm	1	75.00	5.00		375.00		
						Sub Total	375.00		
	New road								
	Sai garden 1st cross road	Sqm	1	47.00	4.20		197.40		
	Abdul kalam Road	Sqm	1	130.00	4.80		624.00		
	Sai garden 3rd Cross Road	Sqm	1	64.00	5.80		371.20		
						Sub Total	1192.60		
	Basic rate	27.00							
	Area weightage 6%	1.62							
	Sub Total	**28.62**							
	Total						3213.50	28.62	91970.23
16.00	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	old Road								
	for old Road Provide 15% Profile Correction		from item no17=(7695.7X15%)=1154.36				7760.30		
		Cum	1	1164.05		0.05	58.20		
	Road cut portion								
	Balaji layout								
	Balaji layout 2nd main 1st cross	Cum	1	4.00	1.30	0.05	0.26		
		Cum	1	3.00	1.00	0.05	0.15		
	Balaji layout 2nd A main	Cum	1	3.00	1.50	0.05	0.23		
	M s palya tippu sulthan road 2nd cross road (Mosque road)	Cum	1	20.00	1.50	0.05	1.50		
		Cum	1	5.00	1.50	0.05	0.38		
	Sawmill road	Cum	1	20.00	1.00	0.05	1.00		
		Cum	1	11.00	1.50	0.05	0.83		
		Cum	1	4.00	1.50	0.05	0.30		
	Ayyappa temple Road	Cum	1	30.00	1.50	0.05	2.25		
		Cum	1	8.00	1.50	0.05	0.60		
	Sai garden								
	Sai garden 1st main road	Cum	1	180.00	1.50	0.05	13.50		
		Cum	1	1.50	1.50	0.05	0.11		
		Cum	1	2.00	1.00	0.05	0.10		
	Sai garden 2nd Cross road	Cum	1	15.00	1.50	0.05	1.13		
		Cum	1	10.00	1.20	0.05	0.60		
	Varadaraju nagara								
	Aveskha hospital back side	Cum	1	27.00	0.60	0.05	0.81		
	1st main 1st Cross Road	Cum	1	3.00	0.80	0.05	0.12		
	2nd cross Road	Cum	1	4.00	0.60	0.05	0.12		
	4th cross Road	Cum	1	3.00	0.80	0.05	0.12		
						Sub total	82.29		
	Scarify length								
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Cum	1	75.00	5.00	0.05	18.75		
						Sub total	18.75		
	New Road								
	Sai garden 1st cross road	Cum	1	47.00	4.20	0.05	9.87		
	Abdul kalam Road	Cum	1	130.00	4.80	0.05	31.20		
	Sai garden 3rd Cross Road	Cum	1	64.00	5.80	0.05	18.56		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
						Sub total	59.63		
	Basic rate	6224.00							
	Area weightage 6%	373.44							
	Sub Total	**6597.44**							
	Total						**160.67**	**6597.44**	**1060042.02**
17.00	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.158,I.No.21.2).								
	Old Road								
	Balaji layout 2nd main 1st cross	Sqm	1	100.00	6.00		600.00		
	Balaji layout 2nd A main	Sqm	1	50.00	5.30		265.00		
	M s palya tippu sulthan road 2nd cross road (Mosque road)	Sqm	1	120.00	4.00		480.00		
	Sawmill road	Sqm	1	194.00	4.50		873.00		
	Ayyappa temple Road	Sqm	1	190.00	6.50		1235.00		
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Sqm	1	84.00	5.00		420.00		
	Sai garden 1st main road	Sqm	1	187.00	7.30		1365.10		
	Sai garden 2nd Cross road	Sqm	1	58.00	4.50		261.00		
	Varadaraju nagara								
	Aveskha hospital back side	Sqm	1	308.00	5.30		1632.40		
	1st main 1st Cross Road	Sqm	1	40.00	4.00		160.00		
	2nd cross Road	Sqm	1	45.00	5.00		225.00		
	4th cross Road	Sqm	1	53.00	4.60		243.80		
						Sub Total	**7760.30**		
	Scarify length								
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Sqm	1	75.00	5.00		375.00		
						Sub Total	**375.00**		
	New road								
	Sai garden 1st Cross road	Sqm	1	47.00	4.20		197.40		
	Abdul kalam Road	Sqm	1	130.00	4.80		624.00		
	Sai garden 3rd Cross Road	Sqm	1	64.00	5.80		371.20		
						Sub Total	**1192.60**		
	Basic rate	5.00							
	Area weightage 6%	0.30							
	Sub Total	**5.30**							
	Total						**9327.90**	**5.30**	**49437.87**
18.00	KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
		Sqm		From Item num 17			9327.90		
	Basic rate	12.00							
	Area weightage 6%	0.72							
	Sub Total	**12.72**							
	Total						**9327.90**	**12.72**	**118650.89**
19.00	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive). (P.No-171I No-21.78.12)								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Old Road								
	Balaji layout								
	Balaji layout 2nd main 1st cross								
	Balaji layout 2nd A main	Cum	1	100.00	6.00	0.04	24.00		
	M s palya	Cum	1	50.00	5.30	0.04	10.60		
	M s palya tippu sulthan road 2nd cross road (Mosque road)								
	Sawmill road	Cum	1	120.00	4.00	0.04	19.20		
	Abdul kalam Road	Cum	1	194.00	4.50	0.04	34.92		
	Ayyappa temple Road	Cum	1	130.00	4.80	0.04	24.96		
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)	Cum	1	190.00	6.50	0.04	49.40		
	Sai garden	Cum	1	159.00	5.00	0.04	31.80		
	Sai garden 1st main road								
	Sai garden 1st Cross road	Cum	1	187.00	7.30	0.04	54.60		
	Sai garden 2nd Cross road	Cum	1	47.00	4.20	0.04	7.90		
	Sai garden 3rd Cross Road	Cum	1	58.00	4.50	0.04	10.44		
		Cum	1	64.00	5.80	0.04	14.85		
	Varadaraju nagara								
	Aveskha hospital back side								
	1st main 1st Cross Road	Cum	1	308.00	5.30	0.04	65.30		
	2nd cross Road	Cum	1	40.00	4.00	0.04	6.40		
	4th cross Road	Cum	1	45.00	5.00	0.04	9.00		
		cum	1	53.00	4.60	0.04	9.75		
	Basic rate	7315.00							
	Area weightage 6%	438.90							
	Sub Total	**7753.90**							
	Total						**373.12**	**7753.90**	**2893104.15**
20.00	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Old Road								
	Balaji layout								
	Balaji layout 2nd main 1st cross								
	at centre	Sqm	0.5	100.00	0.10		5.00		
	at Edge	Sqm	2.00	100.00	0.10		20.00		
	Balaji layout 2nd A main								
	at centre	Sqm	0.5	50.00	0.10		2.50		
	at Edge	Sqm	2.00	50.00	0.10		10.00		
	M s palya								
	M s palya tippu sulthan road 2nd cross road (Mosque road)								
	at centre	Sqm	0.5	120.00	0.10		6.00		
	Sawmill road								
	at centre	Sqm	0.5	194.00	0.10		9.70		
	Abdul kalam Road								
	at centre	Sqm	0.5	130.00	0.10		6.50		
	Ayyappa temple Road								
	at centre	Sqm	0.5	190.00	0.10		9.50		
	at Edge	Sqm	2.00	190.00	0.10		38.00		
	M s palya tippu sulthan road 2nd cross road (Mosque opposite road)								
	at centre	Sqm	0.5	159.00	0.10		7.95		
	Sai garden								
	Sai garden 1st main road								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	at centre	Sqm	0.5	187.00	0.10		9.35		
	at Edge	Sqm	2.00	187.00	0.10		37.40		
	Sai garden 1st Cross road								
	at centre	Sqm	0.5	47.00	0.10		2.35		
	Sai garden 2nd Cross road								
	at centre	Sqm	0.5	58.00	0.10		2.90		
	at Edge	Sqm	2.00	58.00	0.10		11.60		
	Sai garden 3rd Cross Road								
	at centre	Sqm	0.5	64.00	0.10		3.20		
	at Edge	Sqm	2.00	64.00	0.10		12.80		
	Varadaraju nagara								
	Aveskha hospital back side								
	at centre	Sqm	0.5	308.00	0.10		15.40		
	at Edge	Sqm	2.00	308.00	0.10		61.60		
	1st main 1st Cross Road								
	at centre	Sqm	0.5	40.00	0.10		2.00		
	2nd cross Road								
	at centre	Sqm	0.5	45.00	0.10		2.25		
	4th cross Road								
	at centre	Sqm	0.5	53.00	0.10		2.65		
	Basic rate	429.00							
	Area weightage 6%	25.74							
	Sub Total	**454.74**							
	Total						**278.65**	**454.74**	**126713.30**
21	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
	Vinayakanagara								
	Vinayakanagara 9th Cross	Cum	1	157.00	5.50	0.20	172.70		
	Vinayakanagara 8th Cross"B"	Cum	1	83.00	4.90	0.20	81.34		
	Vinayakanagara 8th C Cross	Cum	1	88	3.90	0.20	68.64		
	Vinayakanagara 9th Cross (RHS Cross Road-01)	Cum	1	78	4.10	0.20	63.96		
	Vinayakanagara 9th Cross (RHS Cross Road-02)	Cum	1	77	4.00	0.20	61.60		
	Vinayakanagara 9th Cross (RHS Cross Road-03)	Cum	1	51	2.80	0.20	28.56		
	Basic rate	899.00							
	Area weightage 6%	53.94							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	**1022.74**							
	Total						**476.80**	**1022.74**	**487642.43**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	
22.00	Cement concrete pavement.Construction of un-reinforced plain cement concrete for pavement, using a grade conc prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confi 2016,with superplastisiser @3lts confirming to IS9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire charges of machineries,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Vinayakanagara								
	Vinayakanagara 9th Cross	Cum	1	157.00	5.50	0.15	129.53		
	Vinayakanagara 8th E Cross	Cum	1	91.00	4.50	0.15	61.43		
	Vinayakanagara 8th C Cross	Cum	1	88.00	3.90	0.15	51.48		
	Vinayakanagara 8th Cross"B"	Cum	1	83.00	4.90	0.15	61.01		
	Vinayakanagara 9th Cross (RHS Cross Road-01)	Cum	1	78.00	4.10	0.15	47.97		
	Vinayakanagara 9th Cross (RHS Cross Road-02)	Cum	1	77.00	4.00	0.15	46.20		
	Vinayakanagara 9th Cross (RHS Cross Road-03)	Cum	1	51.00	2.80	0.15	21.42		
	Basic rate	4916.00							
	Area weightage 6%	294.96							
	sub Total	**5210.96**							
	Total						**419.03**	**5210.96**	**2183522.51**
								Grand Total	**16751327.47**
								DPR Charges (1% of estimated cost)	**200000.00**
								Project management And Consultancy Charges(1% of estimated cost)	**200000.00**
								GST Charges (12% of estimated cost)	**2010159.30**
								Tender Premium (5% of estimated Cost)	**837566.37**
								Miscellenious and rounding	**946.86**
								Total Amount	**20000000**
									RUPEES TWO CRORE ONLY

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP